



# **NAVY AND MARINE CORPS SPECTRUM OFFICES (NMCSSO)**



**SHORE SUPPORT**

**(INSTALLATION SPECTRUM MANAGER (ISM)/FLEET  
SUPPORT)**

**"Distribution A: Approved for public release"**

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE <b>MAR 2011</b>		2. REPORT TYPE		3. DATES COVERED <b>00-00-2011 to 00-00-2011</b>	
4. TITLE AND SUBTITLE <b>Shore Support (Installation Spectrum Manager (ISM)/Fleet Support)</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>Navy and Marine Corps Spectrum Center, Norfolk, VA, 23511</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release; distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>The 32nd Annual USN-USMC Spectrum Management Conference 7-11 March 2011, San Diego, CA</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>Same as Report (SAR)</b>	18. NUMBER OF PAGES <b>18</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			



# NMCSO Mission



- The NMCSO is responsible to ensure USN/USMC access to and effective use of the electromagnetic spectrum in national security and military operations.
- This support includes three primary areas:
  - implement and enforce DOD and DON spectrum management policy and guidance;
  - provide afloat, **shore, joint spectrum management support and training;**
  - provide support to Navy Marine Corps Spectrum Center (NMSC) which serves as the DON center of excellence for matters pertaining to electromagnetic spectrum management.



# NMCSO Spectrum Mgmt



- NMCSO Offices provide Regional shore support
  - Supporting COMTHIRDFLT and COMSEVENTHFLT
  - Base/Facility/installation
  - Coastal Areas – SECONDFLT,THIRDFLT, FOURTHFLT,SEVENTHFLT, I, II and III MEF units
- Naval Telecommunications Publication 6 (NTP-6)
- CLF/CPF OPORD 201/2000 Annex K
- C3F OPORD 201 Annex K / C7F CEI Annex K/COMUSNAVEUR 4000
- Marine Corps Order 2401.2A (07Oct2009)
- Other OPORD (COMPATWINGPAC/TSCOM, SUBPAC, ...)
- ISM Instructions



# NMCSO Spectrum Mgmt Cont.



- AESOP – OPTASKCOMMS CSG/ESG baseline plans
- Frequency Request
  - Receipt/Initiation
  - Coordination
  - Submission to NMSC/NTIA
  - Back brief user
- Equipment Certification (DD1494/JF12)
- RFI/EMI (Joint Spectrum Interference Report (JSIR))
- EW / EA / GPS EA / CREWS Clearance request





# NMCSO Regions

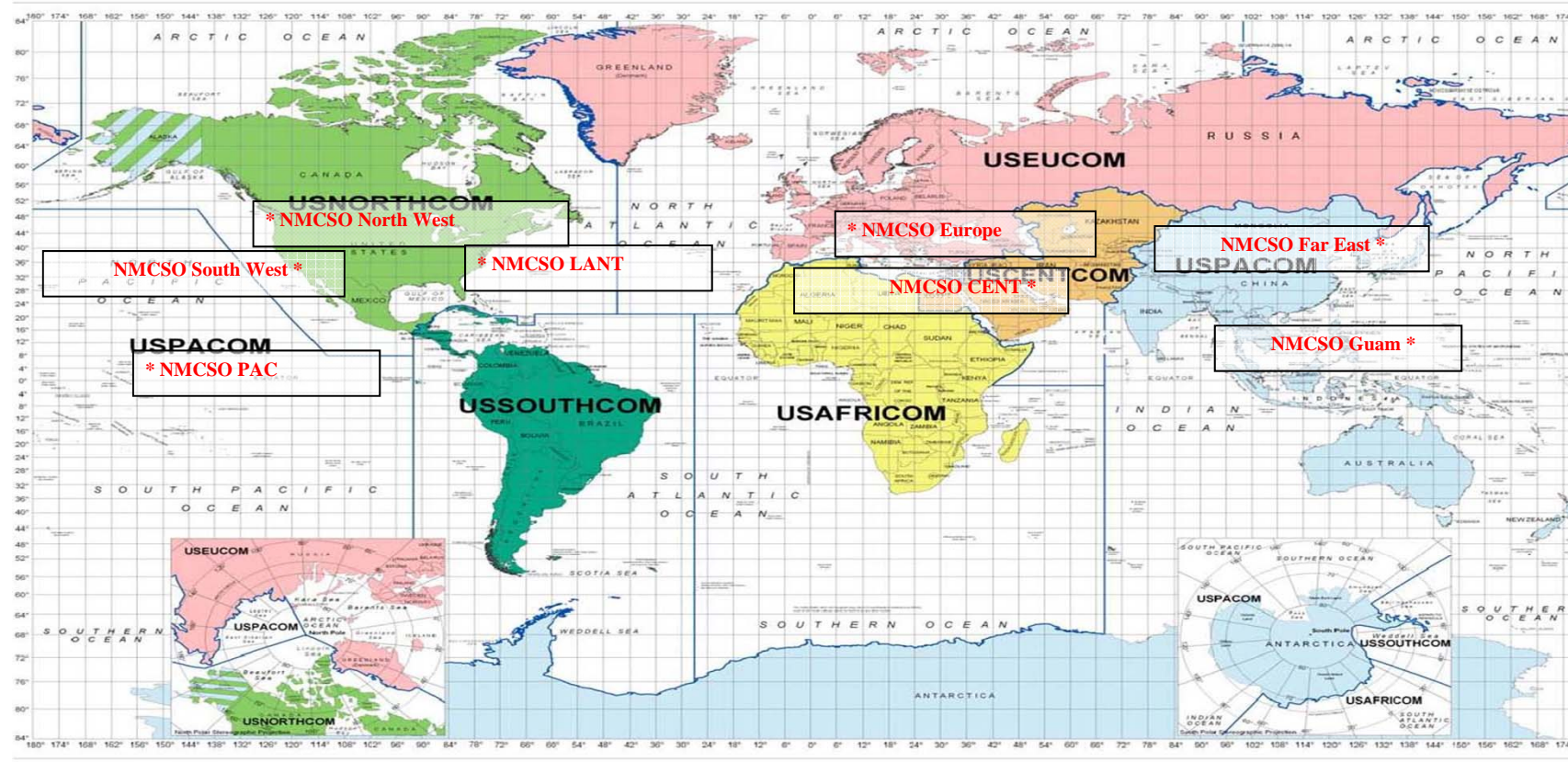


THE WORLD 1:60,000,000

## THE WORLD WITH COMMANDERS' AREAS OF RESPONSIBILITY

EDITION 8 NGA  
BASED ON  
UNIFIED COMMAND PLAN  
17 DECEMBER 2008

SERIES



RES 1107  
ITION 8 NGA



PREPARED AND PUBLISHED BY THE  
NATIONAL GEOSPATIAL INTELLIGENCE AGENCY  
ST. LOUIS, MO  
Map information as of 2008

©COPYRIGHT 2008 BY THE UNITED STATES GOVERNMENT  
NO COPYRIGHT CLAIMED UNDER TITLE 17 U.S.C.

MAP EFFECTIVE 17 DECEMBER 2008

State of Alaska assigned to USNORTHCOM's  
Area of Responsibility. Forces based in Alaska  
remain assigned to USPACOM.

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NSA ENTERPRISE SERVICE DESK: 1-800-455-0899. COMMERCIAL: 301-227-9811; DSN: 287-9811.  
UNCLASSIFIED EMAIL: ENTERPRISE.SERVICE.CENTERS@NSA.MIL; SIPRNET: E5CNSC@NSA.SML.MIL  
OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL INTELLIGENCE AGENCY, ATTN: E5C, MAIL STOP D-240, 4300 SARGENT ROAD, BETHESDA, MD 20816-5003.

1:60,000,000

MILLER CYLINDRICAL PROJECTION

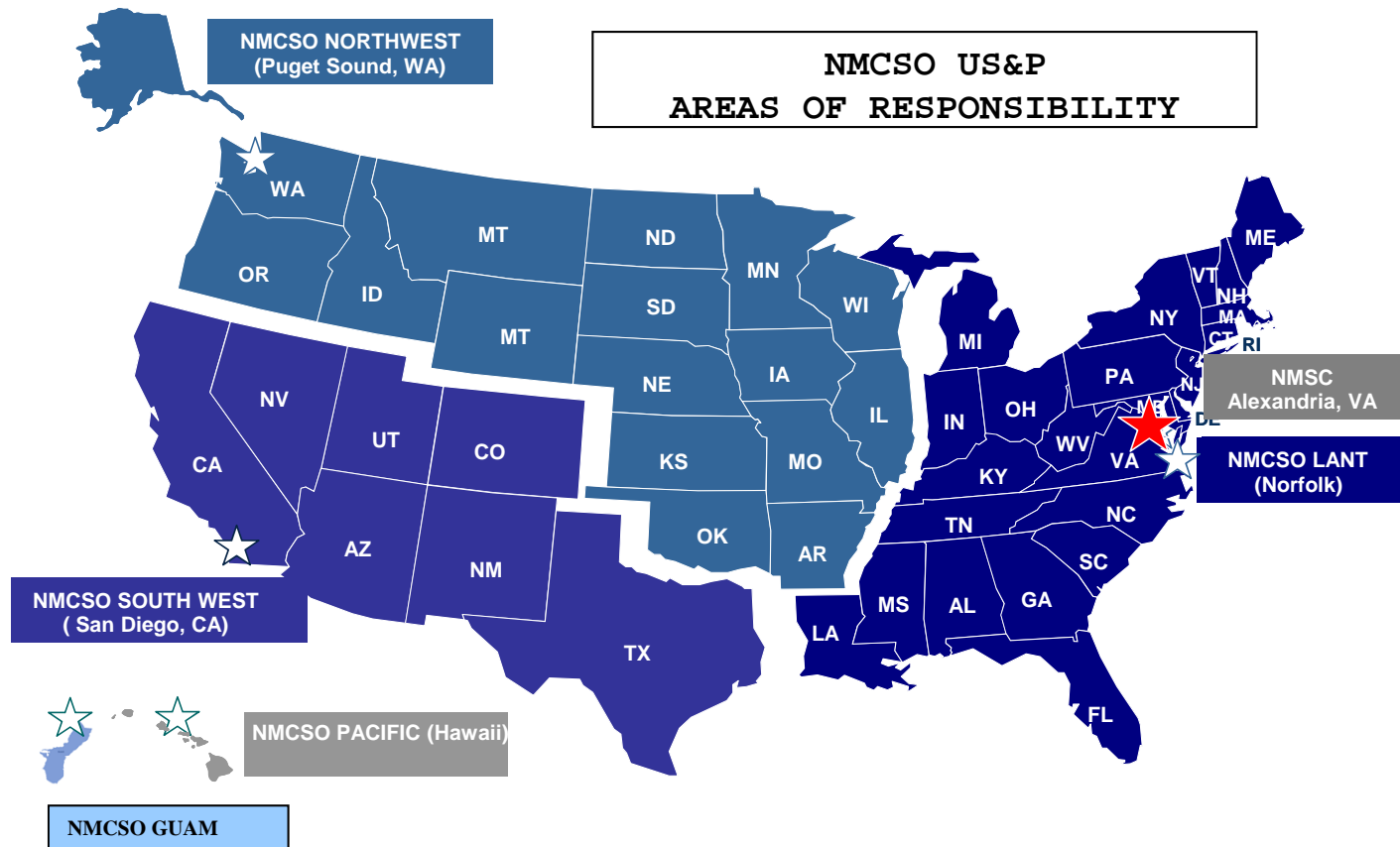
The 1950 Israeli proclamation that  
Jerusalem be the national capital is  
not recognized by the United States.

\* West Bank and Gaza Strip - "Israel-occupied with current  
status subject to the Israeli - Palestinian Interim Agreement -"  
permanent status to be determined through further negotiation."

THE REPRESENTATION OF BOUNDARIES  
IS NOT NECESSARILY AUTHITATIVE.



# NMCSO Regions U.S. & Possessions





# Spectrum Management

## Two Part Process



### Certification (DD1494/JF12)

- Regulations Compliance
- Allocations Compliance
- Standards Compliance
- What other systems are in band?
- Spectrum availability to support requirement?
- Host Nation supportability and coordination
- License to procure

### Freq. Assignment, (SFAF)

- Approval to use a specific channel/frequency in a specified manner
- License to radiate







# Frequency Assignment



- Frequency assignment is the second part of the two part process of authorizing a system or equipment to radiate using the electromagnetic spectrum.
- A frequency assignment is the “license to radiate” on a discrete frequency or frequencies within a specified set of constraints, such as power, emission bandwidth, location of antenna, operating time of day, etc.
- All Radio Frequency (RF) emitters must have an approved frequency assignment prior to conducting testing, evaluation or operations within the US&P or in foreign countries.



# Frequency Assignment Cont.



- Reference appropriate fleet guidance on frequency submission request. Follow Chain of Command on submission request:
  - NTP-6
  - Marine Corps Order 2401.2A
  - COMSEVENTHFLT iaw C7F C2000.1J
  - COMTHIRDFLT iaw APP 8 to Annex K to C3F OPORD 201
  - COMSUBPAC Annex K
  - FACSFAC OPTASK LINKS
  - SOPA Instructions
  - National and International policy variations



# Radiation Restrictions



- Frequency assignment authorization to transmit (RADAR or Comms in port) (FACSFAC, SUBPAC, MIDPAC, ATG, NCTAMS, etc)
- SOPA Instructions (Communications, Emergency Dispersal, and Heavy Weather).
- Regional Regulations for HERO
- AESOP Spectrum Restriction Policy for Radar/Communications
  - Keep Current



# AESOP & CSG/ESG Plans



## Afloat Electromagnetic Spectrum Operations Program

- Mandated by CNO WASHINGTON DC/021532ZMAY2005
- All afloat communications and radar plan development, modification, and dissemination with AESOP.
- NMCSO responsible for coordination and maintenance of frequency assignments and standard CSG/ESG plans working in conjunction with Fleet.
  - NTP-6
  - ISM
- Regional NMCSO responsible for coordination of in port use of frequencies.
- Discontinue use of legacy CSG plans. Guidance forthcoming.(Pubs)



# NMCSO Pacific Points of Contact



**Mr. Randall Hall, N3SO, Supervisor**  
**CML (808) 477-9609, DSN 477-9609**

[Randall.s.hall@navy.mil](mailto:Randall.s.hall@navy.mil) (unclassified)

[Randall.hall@navy.smil.mil](mailto:Randall.hall@navy.smil.mil) (classified)

**EMAIL DISTRO (GROUP):**

**NCTP\_NMCSOPAC@NAVY.MIL**  
**(UNCLAS)**

**NCTP\_NMCSOPAC@NAVY.MIL**  
**(CLASSIFIED)**

**CHATNET (SIPRNET) RM/NETWORK:**  
**(REQUEST IP)**

**#NMCSOPAC\_SPECTRUM**

**ALSO MONITORS**

**#NCTAMS\_PAC\_JFTOC**

**COLLABORATION AT SEA (CAS) SPECTRUM**  
**MGMT SITE: (SIPRNET ONLY)**

**HTTP://WWW.PR.CAS.NAVY.SMIL.MIL/DON/SO/SIT**  
**E.NSF/**

**MESSAGE PLAIN LANGUAGE ADDRESS:**

**DMS(SC) NMCSO PAC HONOLULU HI(SC)**

**DMS(UC) NMCSO PAC HONOLULU HI(UC)**

**LEGACY PLA: NMCSO PAC HONOLULU HI//N3SO//**

**FAX: CML (808) 477-7214 DSN 315 477-7214**





# NMCSO North West Points of Contact



- Mr. Russell Potter, Lead Spectrum Manager,
- CML (360) 396-7075, DSN 744-7075
- [Russell.potter@navy.mil](mailto:Russell.potter@navy.mil) (unclassified)
- [Russell.potter@navy.smil.mil](mailto:Russell.potter@navy.smil.mil) (classified)
- Email Distro (group): bang\_nctsp\_s\_nmcs\_o@navy.mil (unclas)
- [nmcs\\_o\\_puget\\_sound@navy.smil.mil](mailto:nmcs_o_puget_sound@navy.smil.mil) (classified)
- Collaboration At Sea (CAS) Spectrum Mgmt Site: (SIPRNET ONLY)
  - ♦ <http://www.pr.cas.navy.smil.mil/don/so/site.nsf/>
- Message Plain Language Address:
  - ♦ DMS NMCSO PUGET SOUND WA (SC)
  - ♦ DMS NMCSO PUGET SOUND WA (UC)
- FAX: CML (360) 396-6321 DSN (312) 744-6321
- Mailing address:
- NMCSO NORTHWEST PUGET SOUND, WA.
- 1100 HUNLEY RD., SUITE 116
- SILVERDALE, WA. 98315-1099
- After Hours Contact:
- Cell Phone (360) 509-1773



# NMCSO South West Points of Contact



- Ms. Rena Karas, Telecommunications Supervisor,
- CML (619) 545-9978, DSN 735-9978
- [Rena.karas@navy.mil](mailto:Rena.karas@navy.mil) (unclassified)
- [Rena.karas@navy.smil.mil](mailto:Rena.karas@navy.smil.mil) (classified)
- Email Distro (group):
- [SDNI\\_DL\\_NCTSSD\\_NMCSO\\_SOUTHWEST@NAVY.MIL](mailto:SDNI_DL_NCTSSD_NMCSO_SOUTHWEST@NAVY.MIL) (unclas)
- [SDNI\\_DL\\_NCTSSD\\_NMCSO\\_SOUTHWEST@NAVY.SMIL.MIL](mailto:SDNI_DL_NCTSSD_NMCSO_SOUTHWEST@NAVY.SMIL.MIL) (classified)
- Collaboration At Sea (CAS) Spectrum Mgmt Site: (SIPRNET ONLY)
  - ♦ <http://www.pr.cas.navy.smil.mil/don/so/site.nsf/>
- Message Plain Language Address:
  - ♦ DMS NMCSO SAN DIEGO CA (SC)
  - ♦ DMS NMCSO SAN DIEGO CA (UC)



# **NMCSO South West Points of Contact Cont.**



- **FAX: CML (619) 767-7651 DSN 735-7651**
- **Mailing address:**
- **NAVCOMTELSTA SAN DIEGO CA**
- **ATTN RENA KARAS**
- **BLD 1482 NAS NORTH ISLAND**
- **PO BOX 357056**
- **SAN DIEGO CA 92135 7056**
- **After Hours Contact:**
  - **Primary: CWO at NCTS San Diego 619 545-8928**
  - **Alternate: FWO at C3F Pt Loma 619 767-4404**
  - **SPECTRUM XXI ACCOUNT:**
  - **NMCSO SOUTHWEST**



# NMCSO Guam

## Points of Contact



- **Mr. Robert E. Hedrick Jr. , Telecommunications Manager**
- **CML 671-355-5066, DSN 315-355-5066**
- **Email: [robert.hedrick@fe.navy.mil](mailto:robert.hedrick@fe.navy.mil) (unclassified)**
- **Email: [robert.hedrick@fe.navy.smil.mil](mailto:robert.hedrick@fe.navy.smil.mil) (classified)**
- **FAX: CML 671-355-5010 DSN 315-355-5010**
- **Email Distro (group): [M-GU-NMCSO@fe.navy.mil](mailto:M-GU-NMCSO@fe.navy.mil) (unclas)**
- **(Classified) [M-GU-NMCSO-GUAM-GS@fe.navy.smil.mil](mailto:M-GU-NMCSO-GUAM-GS@fe.navy.smil.mil)**
- **SPECTRUM XXI ACCT: NMCSO GUAM**
- **Chatnet (SIPRnet) Room/Network: (request IP):**
- **Collaboration At Sea (CAS) Spectrum Mgmt Site: (SIPRNET ONLY)**
- **<http://www.pr.cas.navy.smil.mil/don/so/site.nsf/>**
- **Message Plain Language Address: Mailing address: NCTS GUAM**
- **DMS NMCSO GUAM GU (SC) ATTN NMCSO GUAM**
- **DMS NMCSO GUAM GU (UC) PSC 488 BOX 101**
- **FPO AP 96537-1800**



# NMCSO LANT

## Points of Contact



- **Janet Baker / NMCSO LANT SUPERVISOR**
- **757-836-8010 DSN 836**
- [janet.baker@hq.jfcom.smil.mil](mailto:janet.baker@hq.jfcom.smil.mil)
- [janet.baker@jfcom.mil](mailto:janet.baker@jfcom.mil)
- [janet.m.baker1@navy.mil](mailto:janet.m.baker1@navy.mil)
- **SXXI: NMCSO LANT N01**
- **701/956: JMB**
- **Commanding Officer NCTAMS LANT**  
**Attn: 01SO/NMCSO**  
**9625 Moffett Ave**  
**Norfolk, Va 23511-2784**
- **SXXI Account:** NMCSO LANT
- **Collective:** [nmcsolant@jfcom.mil](mailto:nmcsolant@jfcom.mil)  
[nmcsolant@hq.jfcom.smil.mil](mailto:nmcsolant@hq.jfcom.smil.mil)
- **Chat Room:** #comm\_coord  
**Server: 205.0.216.51**
- **NREMS PLAD:** NMCSO LANT NORFOLK VA
- **NMCSO LANT NORFOLK FAX**
- **Unclas Fax: 757-836-8022 DSN 836**
- **Class Fax: 757-836-8023 DSN 836**





# QUESTIONS?

Spectrum Management Challenges for the 21<sup>st</sup> Century

